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STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

800 NE Oregon Street #28, Portland OR 97232

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

36-009-00357

(To be accompanied by a \$250 permit fee, a surety bond conditioned as provided by law, and evidence of mineral rights ownership or lease.) This application becomes a permit to drill when signed and dated by DOGAMI in box below.

In compliance with rules and regulations pursuant to ORS 520, application is hereby made for permit to drill (a gas well) (an oil well) to be known as: IW 43a-22-65

IW 43a-22-65 Northwest Natural Gas Company **NW Natural** (Well No.) ropof CW (Lease) (Company or Operator) BHL: 790' south & 380 Surveyed Coordinates (if directional, BHL & SHL): R. 5W Sec. 23 SHL: 550' west and 250' north of the east 1/4 corner of Sec. 22; T6N; R5W of the surface location Actual BHL: 790's + 900 East of SHL

(or) Field Name: Calvin Creek-Schlicker Pool County: Columbia Wildcat: All depth measurements are taken from Kelly Bushing Elevation of ground above sea level: 755 feet. which is 18' above ground.

Lessor (Mineral Owner): Longview Fibre Co. Address: P. O. Box 667 Longview, WA 98630 Surface Owner: Longview Fibre Co. Address: P. O. Box 667 Longview, WA 98630 Lessee: Northwest Natural Gas Company Address: 220 Northwest Second Ave. Portland, OR 97209

We propose to the use the following strings of casings and to land or cement them as herein indicated:

Size of hole	Size of Casing	Weight in pounds per foot	Grade/Type	Depth	Amount of Cement
17-1/2"	13-3/8"	54.50#	H-40	400 feet	300 sx
12-1/4"	8 5/8"	32#	J-55	1950 feet	700 sx
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Geologic Objectives: Clark and Wilson Sand Proposed Depth: 2450' MD 1475' TVD

Company/Operator: NW Natural

DOGAMI approved (date) See Attached: Conditions for Approval

Note: (1) Issuance of this permit is not a finding of compliance with the Statewide Planning Goals or the acknowledged comprehensive plan. (2) Permit expires one year from date of issue. (3) Land use approval must be obtained from the county or city in which the drilling takes place. (4) Unless specifically exempted, permittee is obligated to comply with all current applicable statutes and rules including those adopted

Position: Construction Manager

Date: July 8, 2002

SEND WELL COMMUNICATION TO:

Name: Todd A. Thomas

Address: 220 Northwest 2nd Ave. Portland, OR 97209

Phone: (day) 503/226-4211 ext. 4686 (night) 503/848-2947